



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Container No | Status | Receive Date | Price/Unit | Aging Days | Past Due | Total | Supplier Name |
|----------|-----------|--------------|--------|--------|---------------------|--|-------------|---------|--------------|-----------|----------|-------------------|-------------------|--------------|--------|--------------|---------------|------------|----------|----------|------------------|
| P0041997 | MEC002-VU | 1 | 1 | Net 30 | M7075T6S0.375X5.000 | M7075T6S0.375 X 5.000 : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 receive ft | | | | 12 | 1/7/2019 | 12 | | S142515 | Stock | 1/7/2019 | \$ 32.10 / ft | 0 | | \$385.20 | Metaux Castle |

| PO No | Supplier | Line Item No | Ref No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Container No | Status | Receive Date | Price/Unit | Aging Days | Past Due | Total | Supplier Name |
|-------|----------|--------------|--------|-------|---------------------|---|-------------|---------|--------------|-----------|----------|-------------------|-------------------|--------------|--------|--------------|---------------|------------|----------|----------|------------------|
| | | 2 | | | M7075T6S0.375X8.000 | 7075-T6S Sheet .375" Thick Plate X 8" Wide : MATERIAL : 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 receive ft | | | | | | | | S142516 | Stock | 1/7/2019 | \$ 33.05 / ft | 0 | | \$396.60 | Metaux Castle |
| | | 3 | | | M7075T6S1.000X1.250 | 7075 T6 Sheet 1.000X1.250 : MATERIAL : 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 | | | | | | | | S142517 | Stock | 1/7/2019 | \$ 28.05 / ft | 0 | | \$336.60 | Metaux Castle |

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Container No | Status | Receive Date | Price/Unit | Aging Days | Past Due | Total | Supplier Name | | |
|--------|----------|--------------|--------|-------|---------------------|--|-------------|---------|--------------|-----------|----------|-------------------|-------------------|--------------|--------|--------------|---------------|------------|----------|----------|------------------|------------|--|
| | | 4 | | | M7075T6S6.000X0.250 | 7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 | | | | | | 12 | | S142518 | Stock | 1/7/2019 | \$ 29.35 / ft | 0 | | \$352.20 | Metaux Castle | | |
| Total: | | | | | | | | | | 48 | | | 48 | | | | | | | | | \$1,470.60 | |



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041997**

Supplier: MEC002-VU
Metaux Castle
P.O. Box 4090 Stn A
Toronto
ON
M5W OE9 Canada

PO No: PO041997
PO Date: 12/10/18
Due Date: 12/31/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

E-MAILED
DEC 11 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

| Line Item | Job | Part | Supplier Part No | Description | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
|-----------|-----|---------------------|------------------|---|--------|---------|----------|-----------------|-------------------|---------|-----------------------|----------------|
| 1 AT | | M7075T6S0.375X5.000 | | M7075T6S0.375 X 5.000 MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 receive ft | Firmed | - | 12/31/18 | 12 ft ✓ 1204 | 0 ft | 12 ft | \$32.10/ft 4/18/07 | \$385.20 |



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041997**

Items

| Line Item | Job | Part | Supplier Part No | Description | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
|-----------|-----|---------------------|------------------|--|----------|---------|----------|----------------|-------------------|----------------------|------------------|----------------|
| 2 AK | | M7075T6S0.375X8.000 | | 7075-T6S Sheet .375" Thick Plate X 8" Wide : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 receive ft | Firmed - | | 12/31/18 | 12 ft ✓ | 0 ft 12ft | 12 ft At 12/01/07 | \$33.05/ft | \$396.60 |



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041997**

Items

| Line Item | Job | Part | Supplier Part No | Description | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
|-----------|-----|---------------------|------------------|--|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| 3 | | M7075T6S1.000X1.250 | | 7075 T6 Sheet 1.000X1.250 : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 | Firmed | - | 12/31/18 | 12 ft | 0 ft | 12 ft | \$28.05/ft | \$336.60 |
| | | | | | | | | ✓ 12 ft | | | At 12/01/17 | |



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041997

Items

| Line Item | Job | Part | Supplier Part No | Description | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
|--------------|-----|---------------------|------------------|--|--------|---------|----------|---------------------|-------------------|----------------------|------------------|----------------|
| 4 ✓ AK | | M7075T6S6.000X0.250 | | 7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 OR MATERIAL: 7075- T6/T62/T65/ ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A- 250/13 OR AMS 4048 / 4049 OR ASTM B209 | Firmed | - | 12/31/18 | 12 ft ✓ 12 ft | 0 ft | 12 ft At 12/01/07 | \$29.35/ft | \$352.20 |

Grand Total: \$1,470.60

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/10/18 10:51 AM dart.lavoie.chantal

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Friday, December 07, 2018 2:17 PM
To: Chantal Lavoie
Subject: RE: quote

Hi Chantal,

price an delivery on mat'l.

7075t6 plate 0.375" x 5" x 12 ft \$ 32.10 FT

7075t6 plate 0.375" x 8" x 12 ft \$ 33.05 FT

7075-t6 plate 1" x 1.250" x 12 ft \$ 28.05 FT

7075-t6 plate 6" x 0.250" x 12 ft \$ 29.35 FT

~~303 bar 1" x 3" x 12ft \$ 140.93 FT~~

All 3 weeks

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370
Customized Supply Chain Solutions for Your Metal Needs

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Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

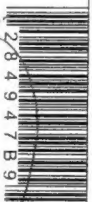
Page 1 of 1

Shipment No: 3792963

| | | | | |
|--|-------------------------|--|---|--|
| Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN | | Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA | Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN | Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA |
| Date Shipped 04-JAN-19 | F.O.B. ORIGIN | Freight Terms Prepaid | Carrier MANITOU LIN | BOL No 3792963-2 |

Shipment Details

Final Destination Branch - TOR

| | | | | |
|---|--|---|--|------------------------------------|
| Order No 5341634 | Line No 1 | Item No 750067.MO | Description 0.3750.PL.7075.T651.ALUMINUM.48.5000.144.5000 CUT 2SIDED TO 5 IN (+ .1250/- .0000 IN) X 144.5 IN (+ .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 | |
| Purchase Order No 41997 | Part Number | Ordered Qty 1.00 PCS | Invoice Qty 1.00 PCS | |
| Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS | | | | |
| Delivery No. 122474070 | Mill/Source KAISER ALUMINUM | Heat Number  284947B9 | Mech Id 1 | PCS 1 |
| | | Width (IN) | Length (IN) | Shipped Qty(LBS) 28.3863 |

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

JAN 03 2019

Date:

Name:





26645782

SHIP TO:

A M CASTLE & CO
3050 SOUTH HYDRAULIC
WICHITA, KS 67216

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108

15000 E Euclid, Spokane Valley WA 99216

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4528208

| | | | | | | | |
|---------------------------------|--------------------------|---------------------------|---------------------------------|-------------------------------------|---|--------------------------------------|--|
| CUSTOMER PO NUMBER: 470853-1 | | WORK PACKAGE: | CUSTOMER PART NUMBER: 750067 | | SHIP RUN/LOAD: 104392/12 | GOV'T CONTRACT NUMBER: | |
| KAISER ORDER NO: 1263284-1 | | SHIP DATE: 15-SEP-2018 | ALLOY: 7075 | CLAD: BARE | TEMPER: T651 | PRODUCT DESCRIPTION: Sawed Plate | |
| WEIGHT SHIPPED: 2682 LB | QUANTITY: 10 PCS EST. | TRUCK B/L #: 2076090 | | GAUGE: 0.3750 IN (9.5250 MM) | DIAMETER/WIDTH: 48.500 IN (1231.9 MM) | LENGTH: 144.500 IN (3670.3 MM) | |

MHU 2264266: LOT 284947B9: 10 pieces;

Certified Specifications

AMS 4045/RevL
CMMP 025/RevV

AMS-QQ-A-250/12/RevA

ASTM B 209/Rev14

Test Code: 1512

Lot: 284947B9 Cast 698

Drop 44

Test Results

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

| Tensile: | Temper | Dir / # Tests | Ultimate KSI (MPA) | Yield KSI (MPA) | Elongation % |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| | T651 | LT / 2 (Min:Max) | 85.1 : 85.1 (587 : 587) | 74.5 : 74.5 (514 : 514) | 14.1 : 14.2 |

(ASTM E1251)

| Chemistry: | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Actual(wt%) | 0.08 | 0.18 | 1.5 | 0.03 | 2.4 | 0.20 | 5.7 | 0.03 | 0.01 | 0.01 | TOT 0.03 |

ALLOY LIMITS

| | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER | MAX |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075 | | | | | | | | | | | | |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT | 0.15 |

Aluminum Remainder

ORDER COMMENTS

AMC CA-15409 R 4



KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108
15000 E Euclid, Spokane Valley WA 99216
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4528208

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (< 1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

Michael Peske

Michael Peske, PT Lab Process Engineer



Page 2 of 2

SPECIFICATION CONTROL DRAWING

A PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION:
QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4045
OR ASTM B209

OR

A PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

A SPECIFICATION:
QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

A PART NUMBER: M7075T6S | TTT | X | W | WWW |
| THK | | WIDTH |

A WHERE "TTT" = THICKNESS (IN INCHES)
AND "W WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S 063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

A PREFERRED SIZE: . TTT BY 4FT BY 10FT FOR SHEET

RELEASED

2017 JUN 19
ECN 17-574

| | | | | |
|------------|---|--|--------------|----------|
| B | ADD REF TO PLATE: T651*TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CARP-149) | | CP | 17 05 05 |
| A | NEW ISSUE | RF | BY | DATE |
| DESIGN | RF | DART AEROSPACE LTD | | |
| DRAWN | CP | HAWKESBURY, ONTARIO, CANADA | | |
| CHECKED | ML | DRAWING NO. | REV. B | |
| MFG. APPR. | LL | M7075T6S | SHEET 1 OF 1 | |
| APPROVED | WM | TITLE | SCALE | |
| DE APPR. | DS | 7075-T6 SHEET/PLATE SPEC | NTS | |
| DATE | 17.05.05 | COPYRIGHT © 2016 BY DART AEROSPACE LTD | | |

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70257650.375x5.000

PO / BATCH NO.: P0041997/S142515

DATE: 19/01/07

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 1254

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 1254

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|-----------------------|-----------------------|
| SURFACE DAMAGE | Y (N) | |
| CORRECT FINISH | (Y) N | |
| CORROSION | Y (N) | |
| CORRECT GRAIN DIRECTION | (Y) N | |
| CORRECT MATERIAL PER M-DRAWING | (Y) N | <u>AMS 90-A-250/2</u> |
| CORRECT THICKNESS | (Y) N | |
| PHOTO REQUIRED | Y (N) | |
| CORRECT REF # TO LINK CERT | (Y) N | <u>HT: 2844-1789</u> |
| CORRECT MATERIAL IDENTIFICATION | (Y) N | |
| CORRECT M# ON THE MATERIAL | (Y) N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y (N) | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y (N) | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
|--|-------------------------------------|
| INSPECTED BY: <u>61</u> DATE: <u>19/01/07</u> | SIGNED OFF BY: _____ DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

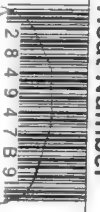
Page 1 of 1

Shipment No: 3792963

| | | | | |
|--|-------------------------|--|---|--|
| Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN | | Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA | Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN | Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA |
| Date Shipped 04-JAN-19 | F.O.B. ORIGIN | Freight Terms Prepaid | Carrier MANITOU LIN | BOL No 3792963-2 |

Shipment Details

Final Destination Branch - TOR

| | | | | | | | |
|--|--|---|--|-----------------|-------------------|--------------------|------------------------------------|
| Order No 5341634 | Line No 2 | Item No 750067.MO | Description 0.3750.P.L.7075.T651.ALUMINUM.48.5000.144.5000 CUT 2SIDED TO 8 IN (+ .1250/- .0000 IN) X 144.5 IN (+ .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 | | | | |
| Purchase Order No 41997 | Part Number | Ordered Qty 1.00 PCS | Invoice Qty 1.00 PCS | | | | |
| Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS | | | | | | | |
| Delivery No. 122474959 | Mill/Source KAISER ALUMINUM | Heat Number  28494789 | Mech Id | PCS 1 | Width (IN) | Length (IN) | Shipped Qty(LBS) 45.4181 |

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material out to the correct size, or material not to the correct size, or material not to the correct size cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

JAN 03 2019

Date:

Name:

Signature



SHIP TO:

A M CASTLE & CO
3050 SOUTH HYDRAULIC
WICHITA, KS 67216

KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108

15000 E Euclid, Spokane Valley WA 99216

Phone: (800) 367-2586

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

CERTIFIED TEST REPORT

Serial Number

4528208

| | | | | |
|---------------------------------|---------------------------|---------------------------------|---|--------------------------------------|
| CUSTOMER PO NUMBER: 470853-1 | WORK PACKAGE: | CUSTOMER PART NUMBER: 750067 | SHIP RUN/LOAD: 104392/12 | GOVT CONTRACT NUMBER: |
| KAISER ORDER NO: 1263284-1 | SHIP DATE: 15-SEP-2018 | ALLOY: 7075 | CLAD: BARE | TEMPER: T651 |
| WEIGHT SHIPPED: 2682 LB | QUANTITY: 10 PCS EST. | TRUCK B/L #: 2076090 | GAUGE: 0.3750 IN (9.5250 MM) | PRODUCT DESCRIPTION: Sawed Plate |
| | | | DIAMETER/WIDTH: 48.500 IN (1231.9 MM) | LENGTH: 144.500 IN (3670.3 MM) |

MHU 2264266: LOT 284947B9: 10 pieces;

Certified Specifications

AMS 4045/RevL
CMMP 025/RevV

AMS-QQ-A-250/12/RevA

ASTM B 209/Rev14

Test Code: 1512

Lot: 284947B9

Cast 898

Drop 44

Test Results

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

| Tensile: | Temper | Dir / # Tests | Ultimate KSI (MPA) | Yield KSI (MPA) | Elongation % |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| | T651 | LT / 2 (Min:Max) | 85.1 : 85.1 (587 : 587) | 74.5 : 74.5 (514 : 514) | 14.1 : 14.2 |

(ASTM E1251)

| Chemistry: | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Actual(wt%) | 0.08 | 0.18 | 1.5 | 0.03 | 2.4 | 0.20 | 5.7 | 0.03 | 0.01 | 0.01 | TOT 0.03 |

ALLOY LIMITS

| | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER | MAX |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075 | | | | | | | | | | | | |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT | 0.15 |

Aluminum Remainder

ORDER COMMENTS

AMC CA-15409 R 4



KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108

15000 E Euclid, Spokane Valley WA 99218

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4528208

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

Michael Peske

Michael Peske, PT Lab Process Engineer



Page 2 of 2

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/12 OR AMS-OO-A-250/12
OR AMS 4045
OR ASTM B209

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/13 OR AMS-OO-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

PART NUMBER: M7075T6S | TTT | X | W | WWW |
THK | WIDTH

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W, WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M7075T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

PREFERRED SIZE: TTT BY 4FT BY 10FT FOR SHEET

RELEASED
2017 JUN 19 4
ECN 17-574

| | | | |
|------------|---|-----------------------------|--------------|
| B | ADD REF TO PLATE "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CARB-149) | CP | 17 05 05 |
| A | NEW ISSUE | RF | 10 11 08 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | RF | DART AEROSPACE LTD | |
| DRAWN | CP | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | ML | DRAWING NO. | REV B |
| MFG. APPR. | LL | M7075T6S | SHEET 1 OF 1 |
| APPROVED | WM | TITLE | SCALE |
| DE APPR. | DS-4 | 7075-T6 SHEET/PLATE SPEC | NIS |
| DATE | | 17 05 05 | |

COPYRIGHT © 2017 DART AEROSPACE LTD
ALL RIGHTS RESERVED

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M20257650.325x8.000

PO / BATCH NO.: P0041997/S142516

DATE: 19/01/07

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 12ft

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 12ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|---|------------------------|
| SURFACE DAMAGE | Y <input checked="" type="checkbox"/> N | |
| CORRECT FINISH | <input checked="" type="checkbox"/> Y N | |
| CORROSION | Y <input checked="" type="checkbox"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> Y N | <u>AMS QA-A-250/12</u> |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> Y N | |
| PHOTO REQUIRED | Y <input checked="" type="checkbox"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="checkbox"/> Y N | <u>#17.284947B9</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> Y N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="checkbox"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="checkbox"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="checkbox"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--|----------------------|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS</u> <u>61</u> <u>3.89</u> | SIGNED OFF BY: _____ | | |
| DATE: <u>19/01/07</u> | DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Ship From:

A. M. CASTLE & CO.
2150 ARGENTIA ROAD
MISSISSAUGA, ON L5N
2K7
CAN

Sold To:

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CA

Ship To:

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON
K6A 1K7 CAN

Deliver To:

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON
K6A 1K7
CA

Shipment No: 3792963

Date Shipped

04-JAN-19

F.O.B.

ORIGIN

Freight Terms

Prepaid

Carrier


MANITOU LIN

BOL No

3792963-2

Shipment Details

Final Destination Branch - TOR

| | | | Final Destination Branch - TOR | | | | |
|-------------------|--------------------|---|---|-------------|------------|-------------|------------------|
| Order No | Line No | Item No | Description | | | | |
| 5341634 | 3 | 752188.MO | 1.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 1.25 IN (+ .1250/.0000 IN) X 144.5 IN (+ .1250/ .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 | | | | |
| Purchase Order No | Part Number | | Ordered Qty | Invoice Qty | | | |
| 41997 | | | 1.00 PCS | 1.00 PCS | | | |
| Details | | ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS | | | | | |
| Delivery No. | Mill/Source | Heat Number | Mech Id | PCS | Width (IN) | Length (IN) | Shipped Qty(LBS) |
| 122474959 | KAISER ALUMINUM |  280328B6 | | 1 | | | 18.8087 |

We hereby certify the material covered by this certification conforms in accordance with the applicable specification.

Test reports are on file subject to examination.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specification forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative

Date Printed: 04-JAN-2019 02:29:26 PM

JAN 03 2019

Date:

Name:



4003 TOR

SHIP TO:

A M CASTLE & CO
14001 ORANGE AVE
P.O. BOX 1402
PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108

15000 E Euclid, Spokane Valley WA 99216

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4536963

| | | | | |
|---|---|---------------------------------|-----------------------------|-------------------------------------|
| CUSTOMER PO NUMBER: 476339-1 | WORK PACKAGE: | CUSTOMER PART NUMBER: 752188 | SHIP RUN/LOAD: 104450/26 | GOV'T CONTRACT NUMBER: |
| KAISER ORDER NO: 1267223-1 | SHIP DATE: 12-NOV-2018 | ALLOY: 7075 | CLAD: BARE | TEMPER: T651 |
| PRODUCT DESCRIPTION: KaiserSelect Plate | WEIGHT SHIPPED: 3558 LB (1613.9 KG) | QUANTITY: 5 PCS EST. | TRUCK B/L #: 2077247 | GAUGE: 1.0000 IN (25.4000 MM) |
| DIAMETER/WIDTH: 48.500 IN (1231.9 MM) | LENGTH: 144.500 IN (3670.3 MM) | | | |

MHU 2280006: LOT 717121B8: 1 pieces;

MHU 2280009: LOT 280328B6: 4 pieces;

Certified Specifications

AMS 4045/RevL
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
PS 21211/RevP

AMS-QQ-A-250/12/RevA
ASTM B 594/Rev13
CMMP 025/RevV
GAMPS 9101/RevB/AmdSCN1

AMS-STD-2154/RevC
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 1512

Test Results

Lot: 280328B6 Cast 713

Drop 07

Ingot 3

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

| | | | | | |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests | Ultimate KSI (MPA) | Yield KSI (MPA) | Elongation % |
| | T651 | LT / 3 (Min:Max) | 83.3 : 84.1 (574 : 580) | 73.6 : 74.7 (507 : 515) | 14.0 : 14.5 |

(ASTM E1251)

| | | | | | | | | | | | |
|---------------|----------|---------|---------|----------------------|---------------|------|-----|------|------|------|----------|
| Chemistry: | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER |
| Actual(wt%) | 0.06 | 0.15 | 1.5 | 0.02 | 2.4 | 0.20 | 5.8 | 0.03 | 0.01 | 0.01 | TOT 0.03 |
| Lot: 717121B8 | Cast 713 | Drop 38 | Ingot 5 | Parent Lot: 280310B4 | Melted in USA | | | | | | |

(ASTM E8/B557)

(EN 2002-1)

| | | | | | |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests | Ultimate KSI (MPA) | Yield KSI (MPA) | Elongation % |
| | T651 | LT / 2 (Min:Max) | 82.5 : 82.6 (569 : 570) | 72.8 : 73.0 (502 : 503) | 12.9 : 13.9 |



(ASTM E1251)

| | | | | | | | | | | | |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Chemistry: | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER |
| Actual(wt%) | 0.08 | 0.18 | 1.5 | 0.04 | 2.6 | 0.19 | 5.6 | 0.03 | 0.01 | 0.01 | TOT 0.03 |



CERTIFIED TEST REPORT

Serial Number
4536963

Trentwood Works
PO Box 15108, Spokane Valley WA 99215-5108
15000 E Euclid, Spokane Valley WA 99216
Phone: (800) 367-2586

ALLOY LIMITS

| | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER | MAX |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075 | | | | | | | | | | | | |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT | 0.15 |

Aluminum Remainder

ORDER_COMMENTS

AMC CA-15403 R 10

TEST NOTES

Metal represented by this test report was 100% Type I
(immersion) ultrasonically tested from one side with 3mm
dead zones top and bottom and meets the Class A and Class B
requirements of all specifications referenced on this test
report. No surface marking of sonic indications is
performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (< 1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

Michael Peske, PT Lab Process Engineer

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4045
OR ASTM B209

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4046/4049
OR ASTM B209

PART NUMBER: M7075T6S|TTT|X|W|WWW|
|THK| |WIDTH|

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W,WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M7075T6S 063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

RELEASED
2017 JUN 19
ECN 17-574

APPROVED

| | | | | |
|---|----------|------|----|----------|
| DESIGN | RF | CP | CP | 17 05 05 |
| DRAWN | CP | RF | BY | 10.11.08 |
| CHECKED | ML | LL | BY | DATE |
| MFG. APPR. | WM | WM | BY | DATE |
| APPROVED | WM | WM | BY | DATE |
| DE APPR. | WM | WM | BY | DATE |
| DATE | 17 05 05 | DATE | | |
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | | | |
| DRAWING NO. M7075T6S | | | | |
| SHEET 1 OF 1 | | | | |
| SCALE | | | | |
| 7075-T6 SHEET/PLATE SPEC | | | | |
| N/A | | | | |
| COPYRIGHT © 2010 BY DART AEROSPACE LTD | | | | |

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075 T651.000x1.250

PO / BATCH NO.: P0041947/5142517

DATE: 1/20/07

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.000"

QUANTITY RECEIVED: 12 Lt

THICKNESS RECEIVED: 1.000"

QUANTITY INSPECTED: 12 Lt

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

| DESCRIPTION | NCR (Check Y/N) | | COMMENTS |
|--|-------------------------------------|-------------------------------------|-----------------|
| SURFACE DAMAGE | Y | <input checked="" type="checkbox"/> | |
| CORRECT FINISH | <input checked="" type="checkbox"/> | N | |
| CORROSION | Y | <input checked="" type="checkbox"/> | |
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> | N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> | N | AMS QA-A-250/12 |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> | N | |
| PHOTO REQUIRED | Y | <input checked="" type="checkbox"/> | |
| CORRECT REF # TO LINK CERT | <input checked="" type="checkbox"/> | N | LIT: 28032866 |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> | N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="checkbox"/> | N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y | <input checked="" type="checkbox"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y | <input checked="" type="checkbox"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | |
|---|--|
| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
| INSPECTED BY: <u>61</u> DATE: <u>1/20/07</u> | SIGNED OFF BY: _____ DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



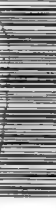
A. M. Castle & Co.

PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No.:3792963

| Shipment Details | |
|------------------|--------------------------------|
| | Final Destination Branch - TOR |

| Order No | Line No | Item No | Description | | | | |
|-------------------|---|---|---|-----|------------|-------------|------------------|
| 5341634 | 4 | 750023.MO | 0.2500".PL.7075.T651.ALUMINUM.48.5000.144.5000 CUT 2SIDED TO 6 IN (+ .1250/- .0000 IN) X 144.5 IN (+ .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 | | | | |
| Purchase Order No | Part Number | Ordered Qty | Invoice Qty | | | | |
| 41997 | | 1.00 PCS | 1.00 PCS | | | | |
| Details | ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS | | | | | | |
| Delivery No. | Mill/Source | Heat Number | Mech Id | PCS | Width (IN) | Length (IN) | Shipped Qty(LBS) |
| 122474959 | KAISER ALUMINUM |  284371B2 | | 1 | | | 22.8550 |

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any special conditions forming a part of the description. Test reports are on file and available for examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size or made to order by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

JAN 03 2019

Date:

Name: W/

SHIP TO:

A M CASTLE & CO
14001 ORANGE AVE
P.O. BOX 1402
PARAMOUNT, CA 90723

KAISER ALUMINUM

Trentwood Works

PO Box 15108, Spokane Valley WA 99215-511
15000 E Euclid, Spokane Valley WA 99216
Phone: (800) 367-2586

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

CERTIFIED TEST REPORT

Serial Number

4534500

| | | | | |
|---|--|---------------------------------|-----------------------------|-------------------------------------|
| CUSTOMER PO NUMBER: 473021-1 | WORK PACKAGE: | CUSTOMER PART NUMBER: 750023 | SHIP RUN/LOAD: 104436/10 | GOVT CONTRACT NUMBER: |
| KAISER ORDER NO: 1264747-1 | SHIP DATE: 29-OCT-2018 | ALLOY: 7075 | CLAD: BARE | TEMPER: T651 |
| PRODUCT DESCRIPTION: Sawed Plate | WEIGHT SHIPPED: 3197 LB (1450.15 KG) | QUANTITY: 18 PCS EST. | TRUCK B/L #: 2076933 | GAUGE: 0.2500 IN (6.3500 MM) |
| DIAMETER/WIDTH: 48.500 IN (1231.9 MM) | LENGTH: 144.500 IN (3670.3 MM) | | | |

MHU 2275239; LOT 284371B2; 18 pieces;

Certified Specifications

AMS 4045/RevL
CMMP 025/RevV

AMS-QQ-A-250/12/RevA

ASTM B 209/Rev14

Test Code: 1512

Lot: 284371B2 Cast 711

Drop 31

Test Results

Ingot 3



Melted in USA

(ASTM E8/B557)

(EN 2002-1)

| Tensile: | Temper | Dir / # Tests | Ultimate KSI (MPA) | Yield KSI (MPA) | Elongation % |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| | T651 | LT / 2 (Min:Max) | 85.1 : 85.8 (587 : 592) | 74.7 : 75.6 (515 : 521) | 13.2 : 13.3 |

(ASTM E1251)

| Chemistry: | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Actual(wt%) | 0.08 | 0.19 | 1.4 | 0.05 | 2.4 | 0.20 | 5.7 | 0.03 | 0.01 | 0.01 | TOT 0.03 |

ALLOY LIMITS

| | SI | FE | CU | MN | MG | CR | ZN | TI | V | ZR | OTHER | MAX |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
| 7075 | | | | | | | | | | | | |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT | 0.15 |

Aluminum Remainder

ORDER COMMENTS

AMC CA-15409 R 4



Trentwood Works

PO Box 15108, Spokane Valley WA 99215-5108
15000 E Euclid, Spokane Valley WA 99216
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4534500

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.226 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

Michael Peske, PT Lab Process Engineer

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4045
OR ASTM B209

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

PART NUMBER: M7075T6S | TTT | X | W | WWW |
| THK | | WIDTH |

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M7075T6S 063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

PREFERRED SIZE: TTT BY 4FT BY 10FT FOR SHEET

RELEASED
2017 JUN 19
ECN 17-574

| | | | | | |
|--|----------|---|--|----|----------|
| B | | ADD. REF. TO "PLATE": T651* TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) | | CP | 17.05.05 |
| A | | NEW ISSUE | | RF | 10.11.08 |
| REV. | | DESCRIPTION | | BY | DATE |
| DESIGN | RF | DART AEROSPACE LTD | | | |
| DRAWN | CP | HAWKESBURY, ONTARIO, CANADA | | | |
| CHECKED | ML | DRAWING NO. M7075T6S | | | |
| MFG. APPR. | LL | TITLE | | | |
| APPROVED | WM | SHEET 1 OF 1 | | | |
| DE APPR. | D9 | SCALE | | | |
| DATE | 17.05.05 | 7075-T6 SHEET/PLATE SPEC NTS | | | |
| COPYRIGHT © 2010 BY DART AEROSPACE LTD | | | | | |

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T656.000x0.250

PO / BATCH NO.: P0041997/S142518

DATE: 19/01/07

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.250"

QUANTITY RECEIVED: 12ft

THICKNESS RECEIVED: 0.250"

QUANTITY INSPECTED: 12ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

| DESCRIPTION | NCR (Check Y/N) | | COMMENTS |
|---|--------------------|------------|------------------------|
| SURFACE DAMAGE | Y | <u>(N)</u> | |
| CORRECT FINISH | <u>(Y)</u> | N | |
| CORROSION | Y | <u>(N)</u> | |
| CORRECT GRAIN DIRECTION | <u>(Y)</u> | N | |
| CORRECT MATERIAL PER M-DRAWING | <u>(Y)</u> | N | <u>AMS QQ-A-250/12</u> |
| CORRECT THICKNESS | <u>(Y)</u> | N | |
| PHOTO REQUIRED | Y | <u>(N)</u> | |
| CORRECT REF # TO LINK CERT | <u>(Y)</u> | N | <u>MT: 28437182</u> |
| CORRECT MATERIAL IDENTIFICATION | <u>(Y)</u> | N | |
| CORRECT M# ON THE MATERIAL | <u>(Y)</u> | N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y | <u>(N)</u> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y | <u>(N)</u> | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | |
|---|--|
| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
| INSPECTED BY: <u>61</u> <u>9-89</u> | SIGNED OFF BY: _____ |
| DATE: <u>19/01/07</u> | DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in